

**ABSTRACT OF THE DISCLOSURE**

Kaolin is added to the insulation (30) in a metal sheathed, mineral-insulated cables of the type used as a power cable, heating cable, or thermocouples where high temperature and an aggressive medium may exist, and which are typically produced by drawing down the cable. The preferred insulation for the invention is MgO. The addition of kaolin decreases moisture seepage into the insulation and consequent drop in insulation resistivity. It also reduces the loss of electrical resistance as temperature increases.